AMENDMENTS TO THE SPECIFICATION

Page 1, delete the 2nd full paragraph, and replace it with the following new paragraph:

The present invention relates to a method for transferring data between a secure computer, e.g. ~~an error-protected~~ a fail safe stored-program control, and a number of input/output units via a bus control unit connected to the secure computer and a serial bus system. The bus control unit cyclically activates the input/output units connected to the bus system and transfers a multi-bit message to the respective activated input/output unit.

Page 3, delete the first full paragraph.

Page 3, delete the 3rd full paragraph, and replace it with the following new paragraph:

According to FIG 1, a data transmission system includes a secure computer 1 and a number of input/output units 2 to 4. The secure computer 1 is designed in the present case as ~~an error-protected~~ a fail safe stored-program control. A stored-program control of this type is manufactured and sold, e.g. by Siemens AG under the designation SIMATIC S5-95F.

Page 4, delete the 3rd full paragraph, and replace it with the following new paragraph:

The address 7 is incremented by the bus control unit 6 after each data transfer,

until all input/output units 2 to 4 are activated. ~~The input/output units 2 to 4 are then reactivated with the lowest address, and the cycle restarts.~~ <u>Then the input/output units 2 to 4 having the lowest address is activated again, and the cycle restarts.</u>

Page 5, delete the 2nd full paragraph, and replace it with the following new paragraph:

The third and fourth data bits are insignificant for the security unit 4 in the present case. However, further outputs could be activated ~~with~~<u>by</u> them if necessary.

AMENDMENTS TO THE DRAWINGS

Drawing corrections are attached hereto. Upon approval of the drawing corrections, new Formal Drawings of each of Figures 1-3 will be submitted in connection with the present application.